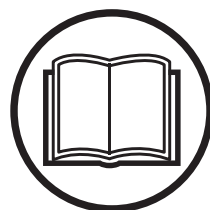




**Operator's manual Manuel d'utilisation
Bedienungsanweisung Gebruiksaanwijzing**

**PG280
PG400**



Please read the operator's manual carefully and make sure you understand the instructions before using the machine.
Lire attentivement et bien assimiler le manuel d'utilisation avant d'utiliser la machine.
Lesen Sie die Bedienungsanweisung sorgfältig durch und machen Sie sich mit dem Inhalt vertraut, bevor Sie das Gerät benutzen.
Neem de gebruiksaanwijzing grondig door en gebruik de machine niet voor u alles duidelijk heeft begrepen.

GB FR DE NL

KEY TO SYMBOLS

Symbols on the machine:

WARNING! The machine can be a dangerous tool if used incorrectly or carelessly, which can cause serious or fatal injury to the operator or others.

Please read the operator's manual carefully and make sure you understand the instructions before using the machine.

Wear personal protective equipment. See instructions under the "Personal protective equipment" heading.

WARNING! Dust forms when grinding, which can cause injuries if inhaled. Use an approved breathing mask. Always provide for good ventilation.

This product is in accordance with applicable EC directives.

Environmental marking. Symbols on the product or its packaging indicate that this product cannot be handled as domestic waste.

By ensuring that this product is taken care of correctly, you can help to counteract the potential negative impact on the environment and people that can otherwise result through the incorrect waste management of this product.

For more detailed information about recycling this product, contact your municipality, your domestic waste service or the shop from where you purchased the product.

Other symbols/decals on the machine refer to special certification requirements for certain markets.



Explanation of warning levels

The warnings are graded in three levels.

WARNING!



WARNING! Indicates a hazardous situation which, if not avoided, will result in death or serious injury.

CAUTION!



CAUTION! Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE!

NOTICE! Is used to address practices not related to personal injury.

CONTENTS

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PRESENTATION

Dear Customer,

Thank you for choosing a Husqvarna product!

It is our wish that you will be satisfied with your product and that it will be your companion for a long time. A purchase of one of our products gives you access to professional help with repairs and services. If the retailer who sells your machine is not one of our authorised dealers, ask him for the address of your nearest service workshop.

This operator's manual is a valuable document. Make sure it is always at hand at the work place. By following its content (using, service, maintenance etc.) the life span and the second-hand value of the machine can be extended. If you will sell this machine, make sure that the buyer will get the operator's manual.

More than 300 years of innovation

Husqvarna AB is a Swedish company based on a tradition that dates back to 1689, when the Swedish King Charles XI ordered the construction of a factory for production of muskets. At that time, the foundation was already laid for the engineering skills behind the development of some of the world's leading products in areas such as hunting weapons, bicycles, motorcycles, domestic appliances, sewing machines and outdoor products.

Husqvarna is the global leader in outdoor power products for forestry, park maintenance and lawn and garden care, as well as cutting equipment and diamond tools for the construction and stone industries.

Owner responsibility

It is the owner's/employer's responsibility that the operator has sufficient knowledge about how to use the machine safely. Supervisors and operators must have read and understood the Operator's Manual. They must be aware of:

- The machine's safety instructions.
- The machine's range of applications and limitations.
- How the machine is to be used and maintained.

National legislation could regulate the use of this machine. Find out what legislation is applicable in the place where you work before you start using the machine.

The manufacturer's reservation

Subsequent to publishing this manual Husqvarna may issue additional information for safe operation of this product. It is the owner's obligation to keep up with the safest methods of operation.

Husqvarna AB has a policy of continuous product development and therefore reserves the right to modify the design and appearance of products without prior notice.

For customer information and assistance, contact us at our website: www.husqvarna.com

Design and features

Values such as high performance, reliability, innovative technology, advanced technical solutions and environmental considerations distinguish Husqvarna's products. Safe operation of this product requires the operator to read this manual carefully. Ask your dealer or Husqvarna should you need more information.

Some of the unique features of your product are described below.

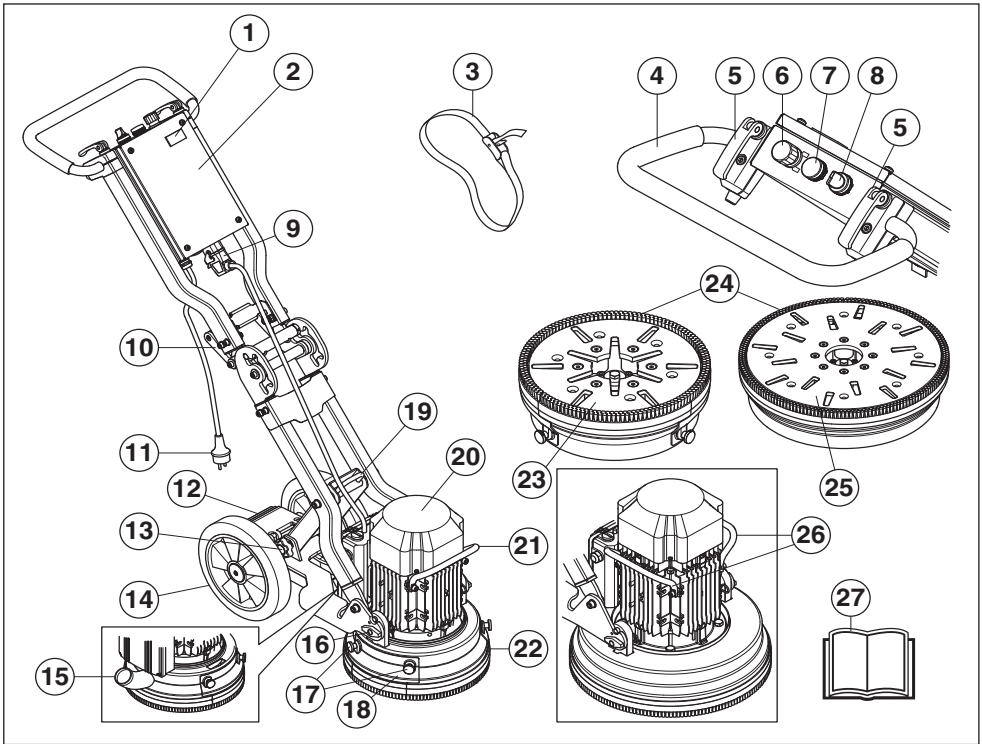
PG280

- The machine is intended for grinding concrete surfaces with varying hardness.
- PG280 is robust and easy to use
- The machine can be folded and is collapsible for simpler transport.
- The machine is equipped with a floating cover.
- The machine is an edge grinder.
- Single-phase 3 phase
- 280 mm grinding surface

PG400

- The machine is intended for grinding concrete surfaces with varying hardness.
- PG400 is robust and easy to use
- The machine can be folded and is collapsible for simpler transport.
- The machine is equipped with a floating cover.
- Single-phase 3 phase
- 400 mm grinding surface

WHAT IS WHAT?



What is what on the grinder?

- | | |
|--|---|
| 1 Counter | 15 Connection, vacuum hose |
| 2 Electrical cabinet | 16 Attachment for motor/grinding head |
| 3 Tensioning straps | 17 Screws for edge grinding hatch - PG280 |
| 4 Handle / handlebar | 18 Hatch, edge grinding - PG280 |
| 5 Locking lever for handlebar adjustment | 19 Lifting eye |
| 6 Emergency stop | 20 Electric motor |
| 7 Overload lamp | 21 Lift handle, motor - PG280 |
| 8 Stop/run switch | 22 Floating cover |
| 9 Connection, quick connection for motor cable | 23 Tool plate - PG280 |
| 10 Handle for angle joint | 24 Brush list |
| 11 Plug | 25 Tool plate - PG400 |
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| 13 Locking knob | 27 Operator's manual |
| 14 Rubber wheels | |

MACHINE'S SAFETY EQUIPMENT

General



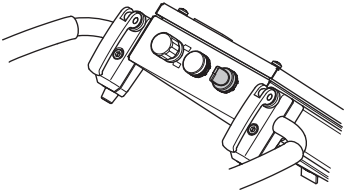
WARNING! Never use a machine with faulty safety equipment. The machine's safety equipment must be checked and maintained as described in this section. If your machine fails any of these checks contact your service agent to get it repaired.

This section describes the machine's safety equipment, its purpose, and how checks and maintenance should be carried out to ensure that it operates correctly.

CAUTION! Connect the motor cable to the electrical box before connecting the plug.

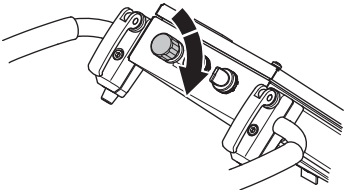
Stop/run switch

The start/stop knob is used to start and stop the machine.

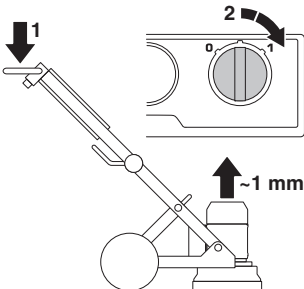


Checking the stop/run switch

Check that the emergency stop or machine stop button are not pressed by turning them clockwise.



- Reduce the pressure between grinding disc and floor by pushing down the handle without lifting the grinding unit from the floor when starting.

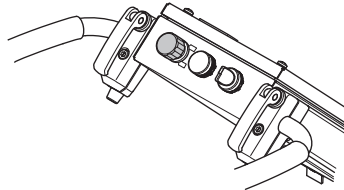


- Start the machine by turning the 0/1 knob to position 1 (drive). The machine will then start smoothly and accelerate to the set speed within 5 seconds.
- Turn the start/stop knob to '0' (stop) to stop the machine.



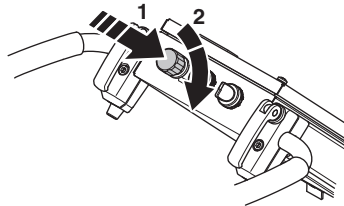
Emergency stop

The emergency stop is used to quickly switch off the engine. The emergency stop at the machine breaks the mains power supply.



Testing the emergency stop

- Press the emergency stop. Check that the engine stops.
- Disengage Emergency Stop button (twist clockwise).



OPERATING

General safety precautions



WARNING! This section describes basic safety directions for using the machine. This information is never a substitute for professional skills and experience. If you get into a situation where you feel unsafe, stop and seek expert advice. Contact your dealer, service agent or an experienced user. Do not attempt any task that you feel unsure of!

- Do not use the machine without first reading and understanding the contents of this Operator's Manual. **Save all warnings and instructions for future reference.**

Work area safety

- **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
- The machine should not be used in areas where potential for fire or explosions exist.

Electrical safety



WARNING! There is always a risk of shocks from electrically powered machines. Avoid unfavourable weather conditions and body contact with lightning conductors and metal objects. Always follow the instructions in the Operator's manual to avoid damage.

Never connect the machine to a outlet if plug or cord is damaged.

- Check that the mains voltage corresponds with that stated on the rating plate on the machine.
- Inspection and/or maintenance should be carried out with the motor switched off and the plug disconnected.
- Always shut down the machine before disconnecting the power plug.
- Never drag the machine by means of the cord and never pull out the plug by pulling the cord. Hold the plug to disconnect the power cord.
- Never use the machine if any cable or plug is damaged, but hand it in to an authorized service workshop for repair.
- The machine must never be driven to such a depth in water that it reaches up to the machine's equipment. The equipment can be damaged and the machine can be live, resulting in personal injuries.
- Always have the power cable disconnected when connecting and disconnecting the contact between the motor and the electrical box.

Grounding instructions



WARNING! Improper connection can result in the risk of electric shock. Contact a qualified electrician if in doubt as to whether the appliance is properly grounded.

Do not modify the plug. If it will not fit the outlet have a proper outlet installed by a qualified electrician. Make sure local regulations and ordinances are followed.

If the grounding instructions are not fully understood contact a qualified electrician.

- The machine is equipped with a grounded cord and plug and should always be connected to a grounded outlet. This reduces the risk of electric shock in the event of malfunction.
- The use of adaptors is not allowed with the machine.

Extension cords and cables

- The marking on the extension cable must be the same or higher than the value stated on the machine's rating plate.
- Use grounded extension cables.
- **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.
- Keep the connection to the extension cord dry and off the ground.
- Keep cable away from heat, oil, sharp edges or moving parts. Damaged or entangled cable increase the risk of electric shock.
- Check that the cables are intact and in good condition. Never use the machine if any cable is damaged, but hand it in to an authorized service workshop for repair.
- To avoid overheating do not use the extension cord while it is rolled up.
- Ensure the cord is behind you when you start to use the machine so that the cord will not be damaged.
- When using an extension cable, use only certified extension cables with sufficient reach.

OPERATING

Personal safety



WARNING! Overexposure to vibration can lead to circulatory damage or nerve damage in people who have impaired circulation. Contact your doctor if you experience symptoms of overexposure to vibration. Such symptoms include numbness, loss of feeling, tingling, pricking, pain, loss of strength, changes in skin colour or condition. These symptoms normally appear in the fingers, hands or wrists. These symptoms may be increased in cold temperatures.

- Wear personal protective equipment. See instructions under the "Personal protective equipment" heading.
- Never use the machine if you are tired, if you have drunk alcohol, or if you are taking medication that could affect your vision, your judgement or your co-ordination.
- Never allow anyone else to use the machine without first ensuring that they have read and understood the contents of the operator's manual.
- All operators shall be trained in the use of the machine. The owner is responsible for ensuring that the operators receive training.
- People and animals can distract you causing you to lose control of the machine. For this reason, always remain concentrated and focused on the task. Never allow children to use or be in the vicinity of the machine.
- Be careful as clothing, long hair, and jewellery can get caught in moving parts.
- There is always a risk of crush injuries when working with products containing moving parts. Keep your distance!
- Never leave the machine unsupervised with the motor running.
- Make sure that there is always another person close at hand when you use the machines, so that you can call for help if an accident should occur.
- Always ensure you have a safe and stable working position.

Personal protective equipment



WARNING! You must use approved personal protective equipment whenever you use the machine. Personal protective equipment cannot eliminate the risk of injury but it will reduce the degree of injury if an accident does happen. Ask your dealer for help in choosing the right equipment.

- Hearing protection
- Protective goggles or a visor
- Breathing mask
- Heavy-duty, firm grip gloves.
- Tight-fitting, heavy-duty and comfortable clothing that permits full freedom of movement.
- Boots with steel toe-caps and non-slip sole.
- Always have a first aid kit nearby.

Use and care

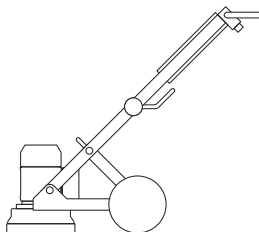
- Only use the machine for the purpose it was intended for.
- Keep all parts in good working order and ensure that all fixtures are properly tightened.
- Never use a machine that is faulty. Carry out the safety checks, maintenance and service instructions described in this manual. Some maintenance and service measures must be carried out by trained and qualified specialists. See instructions under the Maintenance heading.
- Do not modify safety equipment. Check regularly that they function as they should. The machine must not be run with defective or disassembled safety equipment.
- Never use a machine that has been modified in any way from its original specification.
- Always use genuine accessories. Contact your dealer for more information.
- Machinery should only be started when grinding heads are resting on the ground unless carrying out a testing procedure as outlined in this manual.
- The machine should not be started without the brush list attached. It is essential a good seal between machine and floor be established for safety, especially when operating in dry grinding applications.
- During grinding, the machine must be connected to a vacuum cleaner for the removal of the dust.
- Make sure the machine is without power when changing diamond tools by pressing in the emergency stop and disconnecting from the power outlet.
- Always dismantle the diamond tool after each grinding operation.

OPERATING

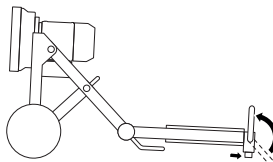
- Make sure that the brush list is intact and clean and that it seals tightly against the floor. Damaged brush list should always be replaced.
- The tool plate continues to rotate for a while after the motor has been switched off. Maintain grinding action until the fan has come to a complete stop. Ensure the tool plate has stopped rotating before lifting up the machine.
- When grinding adhesive, asphalt, paint or the like, lift the front of the machine slightly after use to prevent it sticking to the floor from the heat. Ensure the tool plate has stopped rotating before lifting up the machine.
- Diamond tools may be very hot after use. Leave machine to cool off before removing the diamond segments. Use protective gloves.
- Always use the machine mounted lifting eye when lifting.
- Always carry the machine by the carrying handle and the handle.

Various machine modes

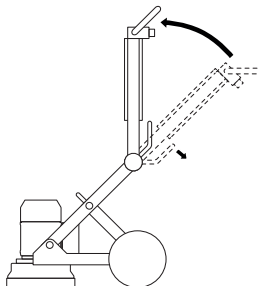
Operating position



Service position

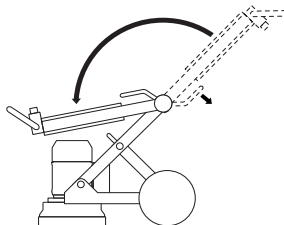


Tilting transportation position



Lifting transportation position

Put padding between the motor and the electrical cabinet to prevent damage to the machine.

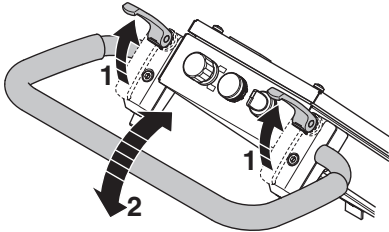


OPERATING

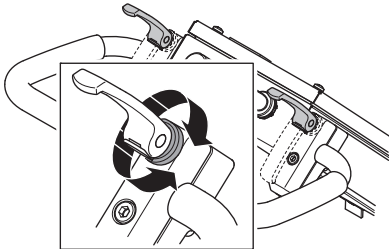
Handlebar adjustment

The handle can be infinitely adjusted. The handle lock knob has two positions, one locked and one open position.

- Folding up the lock knob to open position will release the clamp holding the handle and it can be adjusted to the desired position.



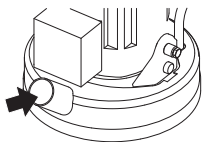
- Fold back the lock knob to locked position.
- How hard the lock knob clamps in locked position is easily adjustable by turning the bushings under the lock knob.



Connect the vacuum cleaner

Use a Husqvarna dust extraction system for complete dust control.

- Connect the vacuum cleaner to the machine. Use a 50 mm (2 inch) hose.



Make sure that the filters in the vacuum cleaner are intact and clean. Pay attention to dust during operation.

Grinding guide Diamonds

Background

The diamond segment comprises usually of two components:

- Diamonds (also called diamond crystals or corn). Changing the size of the diamonds or corn will change the coarseness or fineness of the scratches after the grinding process.
- A bonding agent (metal or plastic). Powder is mixed and suspended in a metal or plastic bonding agent. If metal is used as a bonding agent, the finished product is called metal-bonded or sintered diamond segment. If plastic is used as a bonding agent, the finished product is called plastic-bonded diamonds or polishing disc. By changing the hardness of the bonding agent, you can change how quickly or slowly the diamond abrasive is worn down.

General Principles

General rules for using diamond tools when grinding follow below. As with all rules, there are exceptions or occasions when they do not apply.

Diamond grit size

Changing the size of the diamond grit to a smaller particle/grit size will effect the performance of the diamond tool in the following ways:

- Create a finer scratch pattern.
- Increased service life of diamond tools.

The opposite will occur when changing to a larger particle/grit size.

Binding agent

Increasing hardness of bond will:

- Create a finer scratch pattern.
- Increased service life of diamond tools.
- Decrease production rate.

The opposite will occur when making the metal or resin bond softer.

OPERATING

Number of diamond tools under the machine

An increased number of tools under the machine leads to:

- Reduce pressure on each individual diamond segment - reduce wear rate on diamond segments.
- Reduce load on the machine and cause the grinder to draw less current.
- Create a smoother scratch pattern (particularly on soft floors).

The reverse happens if you reduce the number of tools under the machine.

Summary of diamond principles

The diamond tools must be worn in order to give a high grinding efficiency. The wear on diamond tools can be affected by the following factors:

- Pressure.
- Hardness of bond.
- Diamond grit size.
- Number of segments under the machine.
- Adding an additional abrasive (e.g. sand, silicone carbide) on the floor will increase wear.

Generally, the faster a diamond segment wears, the faster the productivity will be. By varying the above factors, changes can also be made to effect the following:

- Scratch pattern.
- Current draw of machine.
- Flatness of floor (see next section).
- Ease of operation.

Determining the hardness of concrete

All concretes are measured by their compressive strength and depending on which part of the world you are from, different compressive strength indices (e.g. PSI & MPa) are used. Generally, the higher the compressive strength rating, the harder the concrete and therefore, the harder it will be to grind.

But there are also factors other than compression strength that determine how hard a floor is and which therefore affect the choice of diamond tool. As it is most often only the top layer (5 mm) that we are talking about from a grinding point of view, the surface treatment of the concrete and the condition of the concrete surface have many times a greater impact on the choice of diamond segment than the compression strength.

Surface factors to consider when making a diamond selection

Generally, if a concrete surface is very smooth (i.e. Most likely it has been heavily trowelled/helicoptered), the concrete will behave as if it has a high compressive strength and therefore, require a soft bond segment.

Accordingly, if a concrete surface is coarse/aggressive (e.g. rain-damaged, shot blasted, scarified, exposed aggregate e.t.c.), the concrete will behave as if it has a low compressive strength and therefore, require a hard bond segment.

Surface coatings/contaminants (e.g. Epoxy coatings, ceramic tile adhesives, levelling compounds/screeds) will often have a larger bearing on what diamond to select, than will the compressive strength of the concrete.

As a general rule, when grinding a concrete slab for the first time and you are unsure about its hardness, always begin with harder bond diamonds under the machine. This will ensure the least amount of wear on the diamond segments. If a hard diamond segment is not suited to the application, all it has cost is a little amount of time without wearing out the diamonds.

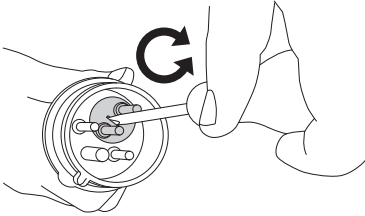
If performed the other way around (i.e. a soft segment is used to begin with) and the concrete is soft or possesses an abrasive surface or surface contaminant, it is quite possible to wear-out a considerable amount of diamond in very short period of time.

OPERATING

The motor's direction of rotation

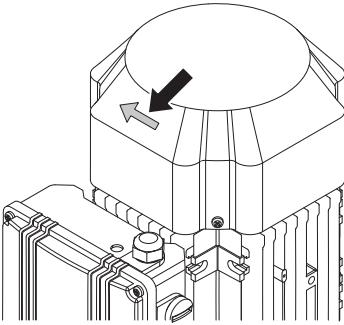
3 phase

The motor's direction can be changed by reversing the poles in the power plug.



Single-phase

The arrow shows the direction of rotation of the motor.



NOTICE! The Piranha/PCD tools are designed to run in only one direction.

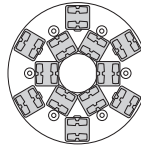
Diamond selection

The way diamond segments are set-up on the grinding unit will greatly influence the performance of the machine, the productivity levels and also the finished floor quality.

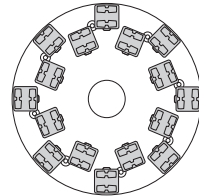
There are a number of different diamond configurations that can be achieved on both the PG 400 and PG 280.

Metal bond diamonds

Full set - inner and outer row

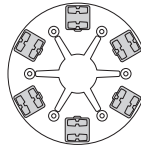


PG 280

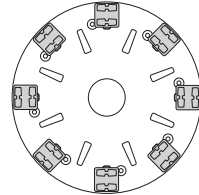


PG 400

Full set - outer row

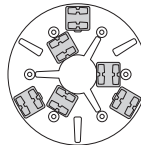


PG 280

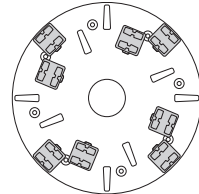


PG 400

Half set - inner and outer row

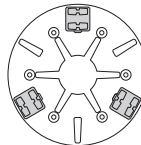


PG 280

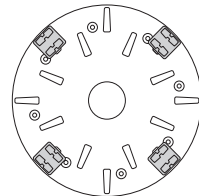


PG 400

Half set - outer row



PG 280

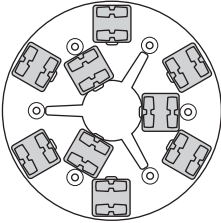


PG 400

OPERATING

For edge grinding PG280

Half set - inner row Full set - outer row



PG 280

NOTICE! Husqvarna's recommendation regarding edge grinding is two segments on each tool plate.

OPERATING

Select the correct metal bond diamonds for your application

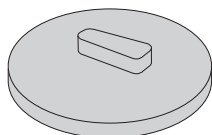
The following suggestion cover the basic configurations for metal bonded diamond tools.

Applications	Metal bond	Grit size	Full set - inner and outer row	Full set - outer row	Half set - inner and outer row	Half set - outer row
Flatten floor - Hard concrete	Soft	16 or 30	X			
Flatten floor - Medium concrete	Medium	16 or 30	X			
Flatten floor - Soft concrete	Hard	16 or 30	X			
Ceramic tile adhesive removal	Medium	PIRANHA™ or 16-30	X			
Vinyl or Carpet glue removal - Hard concrete	Soft	PIRANHA™ or 16-30			X	X
Vinyl or Carpet glue removal - Medium concrete	Medium	PIRANHA™ or 16-30			X	X
Vinyl or Carpet glue removal - Soft concrete	Hard	PIRANHA™ or 16-30			X	X
Epoxy paint removal - Hard concrete	Soft	PIRANHA™ or 16-30		X	X	
Epoxy paint removal - Medium concrete	Medium	PIRANHA™ or 16-30		X		
Epoxy paint removal - Soft concrete	Hard	PIRANHA™ or 16-30		X		
Rain damaged concrete	Hard	16-30	X		X	
Smoothen exposed aggregate	Hard	16-30	X		X	
Lippage removal in terrazzo/stone tiles	Soft	30 or 60	X			
Surface polishing of concrete floors - Hard concrete	Soft	60			X	X
Surface polishing of concrete floors - Medium concrete	Medium	60			X	X
Surface polishing of concrete floors - Soft concrete	Hard	60			X	X
Grinding to exposed aggregate in concrete - Hard concrete	Soft	16-30	X	X	X	
Grinding to exposed aggregate in concrete - Medium concrete	Medium	16-30	X	X	X	
Grinding to exposed aggregate in concrete - Soft concrete	Hard	16-30	X		X	
Flatten undulation in concrete floors - Hard concrete	Soft	16 or 30	X	X	X	
Flatten undulation in concrete floors - Medium concrete	Medium	16 or 30	X		X	
Flatten undulation in concrete floors - Soft concrete	Hard	16 or 30	X		X	

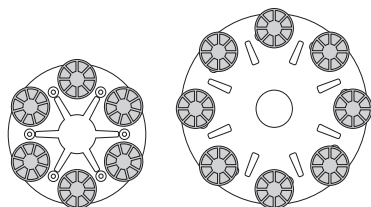
OPERATING

Resin bond diamonds

Redi Lock resin attachment adaptor



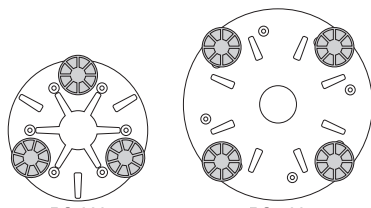
Full set - outer row



PG 280

PG 400

Half set - outer row



PG 280

PG 400

Selecting the correct resin bond diamond configuration for your application

Applications	Full set - outer row	Half set - outer row
Polishing terrazzo/stone tiles	X	
Resurfacing terrazzo/stone tiles		X
Surface polishing of concrete floors - Hard concrete		X
Surface polishing of concrete floors - Medium concrete		X
Surface polishing of concrete floors - Soft concrete		X

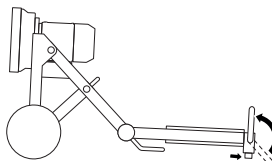


WARNING! CP1200 and P1100 must not under any circumstances be used with a Redi lock adapter.

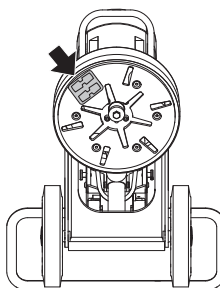
Changing the diamonds

Shut down the machine and disconnect the power plug. Have a set of gloves ready, as diamond tools can get very hot.

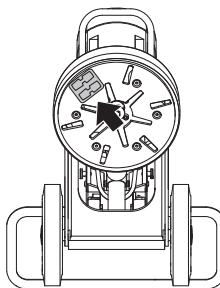
- Put the machine into service position.
- Pull back on handle to lift grinding head off the ground.
- Lay machine back on the ground.



- Put on gloves.
- Use a hammer to remove the diamond segments.



- Affix new diamond segments on the grinding disc.

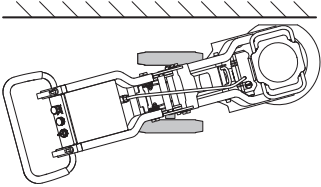


- Once new diamond segments have been attached, reverse procedure to lower machine to ground.

OPERATING

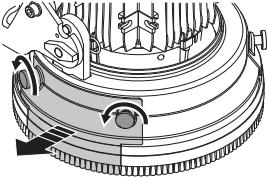
Edge grinding - PG280

This machine has edge grinding capabilities.

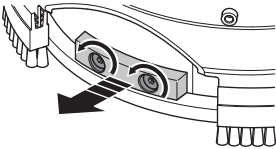


For edge grinding close to walls, the hatch on the right or left side of the dust cover must be removed.

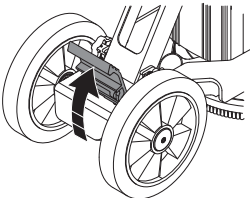
- Remove the screws (2) and the hatch.



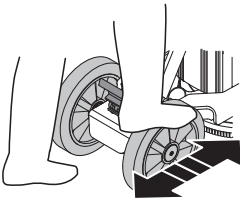
- Under the hatch there is a removable guard to protect the wall when grinding. The guard can be removed for grinding closer next to the wall, 2 screws.



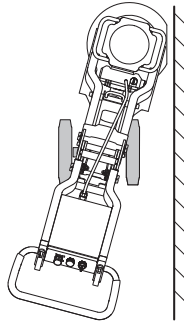
- Raise the foot pedal.



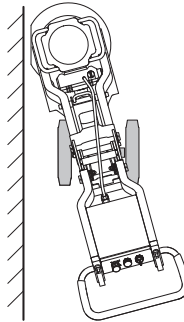
- Use your foot to give the wheels the right angle.



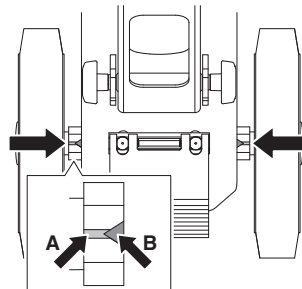
- For edge grinding on the right side, the wheels must be directed left.



- For edge grinding on the left side, the wheels must be directed right.



- When the red marking on the wheel axle (A) is in line with the red marking on the frame (B), the direction is again straight.



OPERATING

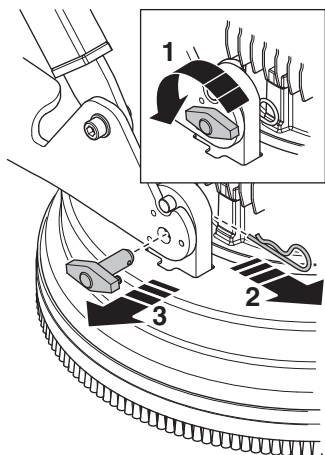
Transport and storage

- Secure the equipment during transportation in order to avoid transport damage and accidents.
- The machine should be transported under cover where possible, limiting the exposed to natural elements – in particular rain and snow.
- Store the equipment in a lockable area so that it is out of reach of children and unauthorized persons.
- The machine should always be stored in a dry place when not in use.

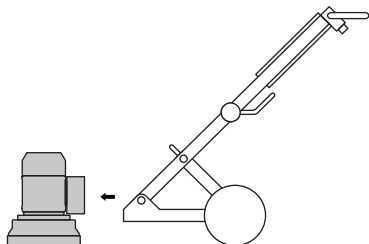
Transport

The machine can be taken apart and folded to give a smaller size when transporting.

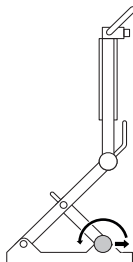
- Disconnect the motor cable from the electrical box.
- Loosen the nuts a few turns to release any pressure, pull out the locking pins and remove the bolts on each side.



- Loosen the grinding head from the wheel chassis.



- Put the machine in inclined transport position. Loosen the locking knobs on the support foot.

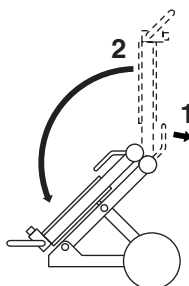


PG280

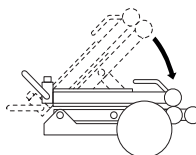
- Fold forward the support foot.

PG400

- Fold back the support foot.
- Hold down the handle on the angle joint while simultaneously angling the upper part of the frame carefully forward.

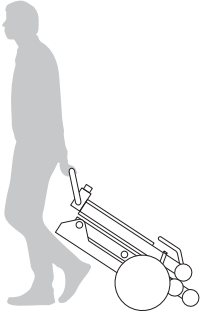
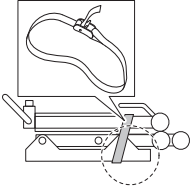


- Fold up the machine carefully.



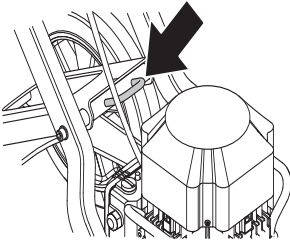
OPERATING

- Secure the machine with an approved tensioning strap. Make sure no machine parts are clamped or damaged by the tensioning strap.



Lifting eye

- Always use the machine mounted lifting eye when lifting.



STARTING AND STOPPING

Before starting



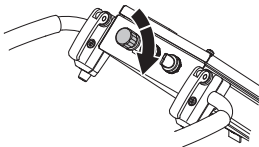
WARNING! Please read the operator's manual carefully and make sure you understand the instructions before using the machine.

Wear personal protective equipment. See instructions under the "Personal protective equipment" heading.

Make sure no unauthorised persons are in the working area, otherwise there is a risk of serious personal injury.

Check that the machine is assembled correctly and do not show any signs of damage.

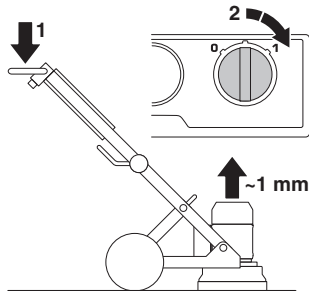
- Perform daily maintenance.
- Position grinder on the working area.
- Make sure there are diamonds beneath the machine and that they are firmly attached.
- Connect the vacuum cleaner to the machine.
- Use locking knobs for handlebar adjustment to set most comfortable working height.
- Make sure the motor cable is connected to the electrical box before the machine is plugged into an electric socket.
- Plug the machine into an electric socket.
- Check that the emergency stop button is not pressed by turning it clockwise.



- Check the motor's direction of rotation

Starting

- Reduce the pressure between grinding disc and floor by pushing down the handle without lifting the grinding unit from the floor when starting.



- To start the machine. Start the machine by turning the 0/1 knob to position 1 (drive). The machine will then start smoothly and accelerate to the set speed within 5 seconds.

Stopping

- Turn off the machine with the start/stop knob, turn it to '0' (stop).



- Keep grinding segments in contact with the floor when stopping. This will help bring the machine to a complete stop quickly. Do not lift the grinding head off the floor when stopping as this can create a significant amount of dust in the air.
- Pull out the plug.

MAINTENANCE

Faults and trouble shooting

The machine does not run

- Check the power supply and the power cables to make sure they are not damaged.
- Check that the emergency stop button is not pressed by turning it clockwise.
- Check the overload lamp. If the overload lamp is on, allow the motor to cool down for a few minutes until the machine is automatically reset.

Machine is hard to hold onto

- Too few diamonds under the machine or the wrong type of tool for the application (stiff adhesive or soft floor coverings result in high stress to the machine and the user if there are too few diamonds under the machine). Usually also accompanied by high current draw by motor.

Use the number of diamonds recommended by Husqvarna to reduce the stress on the grinder and the user.

Machine is jumping around

- Diamonds may not be fitted correctly or have different heights. Check to ensure all diamonds are fitted correctly and are the same height.

The machine stops after just a while

- The machine is overloaded and the overload protection has been released. Reduce load. The machine will reboot after about a minute when the motor has cooled off.
- Ensure any extension cables are not under dimensioned.

The machine stops during start-up

- The electric motor has overloaded and the overload lamp is on. Give the machine one or two minutes to reset and try again. When this does not help, contact an authorised service workshop.
- Ensure any extension cables are not under dimensioned.

NOTICE! Good motor performance depends on proper voltage. Extension cables that are too long and/or which have a gage that is too small, reduce power to the motor under load.

Maintenance

IMPORTANT! Inspection and/or maintenance should be carried out with the motor switched off and the plug disconnected.

Used correctly, the machine is an extremely low-maintenance and reliable product.

Daily maintenance

- Cleaning
- Electrical Feed
- Brush list

Cleaning

Always pull out the plug from the outlet socket before cleaning, maintenance or assembly.

Always clean all the equipment at the end of the working day. Do not use a high pressure washer to clean the machine.

In order for the machine to always be cooled sufficiently the cooling air openings must be kept clear and clean.

Electrical Feed



WARNING! Never use damaged cables. They can cause serious, even fatal, personal injuries.

Check that the cord and extension cord are intact and in good condition.

Never use the machine if the cord is damaged, hand it in to an authorized service workshop for repair.

Brush list

Make sure the brush strip is whole and reaches down to the floor.

Service

IMPORTANT! All types of repairs may only be carried out by authorised repairmen. This is so that the operators are not exposed to great risks.

TECHNICAL DATA

PG280

	PG280 (3 phase, 380-480V)		PG280 (Single-phase, 220-240V)		PG280 (Single-phase, 100-120V)	
	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz
Motor Power, kW/hp	3,0/4,0	2,2/3,0	2,2/3,0	1,5/2,0	1,5/2,0	1,5/2,0
Rated current, A	6	13	13	20	19	
Rated voltage, V	380-480	220-240	220-240	100-120	100-120	
Weight, kg/lbs	70/154	70/154	70/154	70/154	70/154	
Grinding width, mm/inch	280/11	280/11	280/11	280/11	280/11	
Grinding pressure, kg/lbs	41/90,4	41/90,4	41/90,4	41/90,4	41/90,4	
Rotation speed - grinding disc, rpm	2915	1410	1730	940	1150	

PG400

	PG400 (3-phase, 220-240V)		PG400 (3-phase, 400-480V)		PG400 (Single-phase, 220-240V)
	50 Hz	60 Hz	50 Hz	60 Hz	60 Hz
Motor Power, kW/hp	4,0/5,4	4,8/6,5	4,0/5,4	4,8/6,5	3,0/4,0
Rated current, A	15	15	9	9	18
Rated voltage, V	220-240	220-240	400-480	400-480	220-240
Weight, kg/lbs	115/254	115/254	115/254	115/254	115/254
Grinding width, mm/inch	400/16	400/16	400/16	400/16	400/16
Grinding pressure, kg/lbs	73/161	73/161	73/161	73/161	75/165,3
Rotation speed - grinding disc, rpm	1445	1730	1445	1730	1140

PG280, PG400

	PG280	PG400
Noise emissions (see note 1)		
Sound power level, measured dB (A)	90	98
Sound power level, guaranteed L _{WA} dB (A)	92	101
Sound levels (see note 2)		
Sound pressure level at the operators ear, dB(A)	74,1	84,7
Vibration levels (see note 3)		
Handle right, m/s ²	4,0	6,5
Handle left, m/s ²	3,8	5,2

Note 1: Noise emissions in the environment measured as sound power (L_{WA}) in conformity with EN 60335-1 and EN 60335-2-72.

Note 2: Noise pressure level according to EN 60335-1 and EN 60335-2-72. Reported data for noise pressure level has a typical statistical dispersion (standard deviation) of 1.0 dB(A).

Note 3: Vibration level according to EN 60335-1 and EN 60335-2-72. Reported data for vibration level has a typical statistical dispersion (standard deviation) of 1 m/s².

TECHNICAL DATA

EC Declaration of Conformity

(Applies to Europe only)

Husqvarna AB, SE-561 82 Huskvarna, Sweden, tel: +46-36-146500, declares under sole responsibility that the floor grinder **Husqvarna PG280, PG400** dating from 2014 serial numbers and onward (the year is clearly stated on the type plate, followed by the serial number), complies with the requirements of the COUNCIL'S DIRECTIVE:

- of May 17, 2006 "relating to machinery" **2006/42/EC**.
- of December 15, 2004 "relating to electromagnetic compatibility" **2004/108/EC**.
- of December 12, 2006 "relating to electrical equipment" **2006/95/EC**.

The following standards have been applied: EN ISO 12100:2010, EN 55014-1:2006, EN 55015-2/A1:2001, EN 61000-3-2:2006, EN 61000-3-3/A1/A2:2005, EN 13862/A1:2009.

The supplied machine conforms to the example that underwent EC type examination.

Gothenburg 6 February 2014



Helena Grubb

Vice President, Construction Equipment Husqvarna AB

(Authorized representative for Husqvarna AB and responsible for technical documentation.)



www.husqvarnacp.com

GB - Original instructions, FR - Instructions d'origine,
DE - Originalanweisungen, NL - Originele instructies

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2014-03-20